# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 12/10/2015 11:25 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/21/2015 09:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124617 | -1 | 6.73 | 124552 | 6.79 |
| Blue | F | SSC | 125000 | 125406 | 0 | 3.19 | 126320 | 2.86 |
| Blue | E | FITC | 17224 | 16776 | -3 | 2.71 | 946 | 10.24 |
| Blue | D | PE | 22462 | 21884 | -3 | 2.25 | 987 | 9.29 |
| Blue | B | PerCP-Cy5-5 | 63940 | 63024 | -2 | 3.09 | 1658 | 14.82 |
| Blue | A | PE-Cy7 | 72480 | 71822 | -1 | 4.23 | 930 | 28.65 |
| Red | C | APC | 63778 | 63040 | -2 | 2.58 | 3561 | 8.20 |
| Red | A | APC-Cy7 | 97254 | 97842 | 0 | 2.61 | 1933 | 8.09 |
| Violet | B | V450 | 10730 | 10491 | -3 | 3.88 | 652 | 8.76 |
| Violet | A | V500 | 42147 | 41062 | -3 | 3.60 | 2318 | 6.34 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 18527 | 38.85 | 634 | 14 | N/A | N/A | Pass |
| Blue | F | SSC | 62537 | 1.81 | 542 | 15 | N/A | N/A | Pass |
| Blue | E | FITC | 102 | 38.75 | 546 | 7 | 0.0188 | 112 | Pass |
| Blue | D | PE | 203 | 28.12 | 540 | 8 | 0.1369 | 168 | Pass |
| Blue | B | PerCP-Cy5-5 | 200 | 45.68 | 628 | 14 | 0.0090 | 55 | Pass |
| Blue | A | PE-Cy7 | 67 | 120.14 | 688 | 15 | 0.0113 | 21 | Pass |
| Red | C | APC | 331 | 26.47 | 587 | 3 | 0.0207 | 1 | Pass |
| Red | A | APC-Cy7 | 120 | 38.39 | 569 | 4 | 0.0046 | 665 | Pass |
| Violet | B | V450 | 69 | 46.97 | 479 | 5 | 0.0419 | 2287 | Pass |
| Violet | A | V500 | 151 | 24.93 | 509 | 6 | 0.0126 | 582 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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| Input Device: | Carousel | Date: | 12/10/2015 11:25 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.62 | 47.70 - 71.54 | N/A | N/A | -31.04 | -30.83 | 0.69 |
| Blue | 20.47 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.17 |
| Red | 13.78 | 13.09 - 19.63 | N/A | N/A | 31.34 | 31.49 | 1.08 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.81

## Threshold

Threshold (FSC): 10386

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments